

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: HALO

Report Number: P886753

Luminaire Tested: ML310LSFL9FS1E-TIR4D55WFL-TL3RDSL-1000LM-3000K

Issue Date: 7/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P886753
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML310LSFL9FS1E-TIR4D55WFL-TL3RDSL-1000LM-3000K
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1186.7 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.76
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

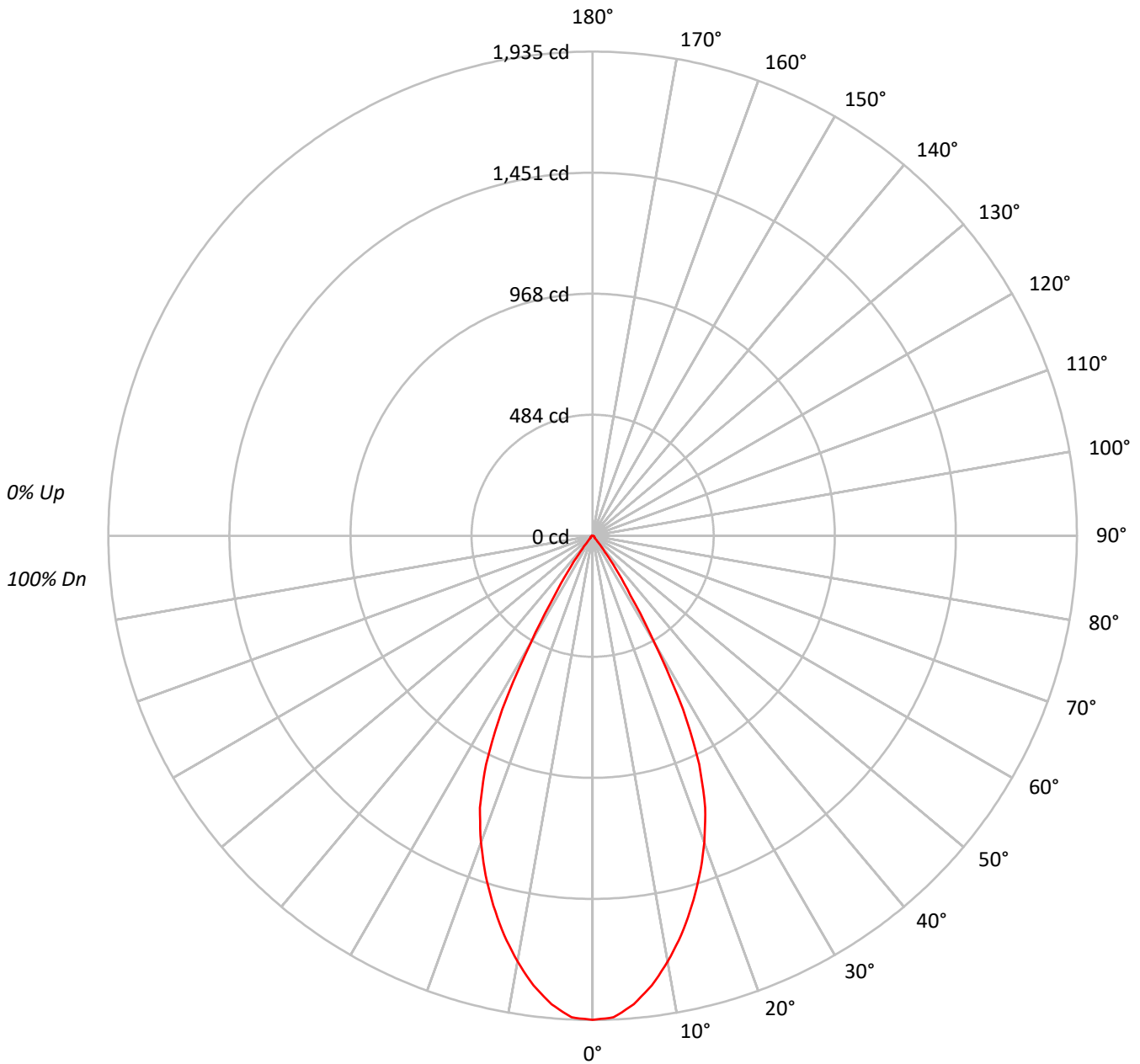
Input Watts (W): 13.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	94																			
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89																			
3	104	99	94	90	102	97	93	90	95	91	88	92	89	87	90	88	86	84																			
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80																			
5	96	88	83	79	94	87	82	79	85	81	78	84	80	77	82	79	77	75																			
6	92	84	78	74	90	83	78	74	81	77	74	80	76	73	79	75	73	71																			
7	88	79	74	70	86	79	74	70	78	73	70	76	72	69	75	72	69	68																			
8	84	76	70	67	83	75	70	67	74	70	66	73	69	66	72	68	66	65																			
9	81	72	67	63	80	72	67	63	71	66	63	70	66	63	69	65	63	61																			
10	78	69	64	60	77	68	64	60	68	63	60	67	63	60	66	62	60	59																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	424242
5°	413778
10°	384696
15°	347562
20°	304363
25°	243691
30°	124500
35°	41278
40°	10963
45°	3845
50°	3548
55°	3555
60°	3640
65°	3217
70°	3334
75°	3474
80°	3915
85°	2516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 80°
 Luminance: 3915 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.6	14.7
10°-20°	426.4	35.9
20°-30°	436.1	36.7
30°-40°	117.1	9.9
40°-50°	12.3	1.0
50°-60°	8.1	0.7
60°-70°	6.5	0.5
70°-80°	4.4	0.4
80°-90°	1.3	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1037.0	87.4
0°-40°	1154.1	97.3
0°-60°	1174.6	99.0
0°-90°	1186.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1186.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1935	
5°	1880	175
15°	1531	426
25°	1007	436
35°	154	117
45°	12	12
55°	9	8
65°	6	7
75°	4	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1934.7
2.5°	1926.4
5°	1879.8
7.5°	1812.5
10°	1727.7
12.5°	1634.5
15°	1531.0
17.5°	1421.3
20°	1304.3
22.5°	1175.9
25°	1007.2
27.5°	781.5
30°	491.7
32.5°	280.5
35°	154.2
37.5°	79.7
40°	38.3
42.5°	16.6
45°	12.4
47.5°	11.4
50°	10.4
52.5°	9.3
55°	9.3
57.5°	8.3
60°	8.3
62.5°	7.2
65°	6.2
67.5°	6.2
70°	5.2
72.5°	5.2
75°	4.1
77.5°	3.1
80°	3.1
82.5°	2.1
85°	1.0
87.5°	0.0
90°	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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